

## Quick Reference Sheet of Samba Permission Handling

### ♦ Key Samba Config Options (Inside [sharename])

Option	What it Does
<code>path</code>	Filesystem path to share (e.g., <code>/mnt/shared</code> )
<code>writable</code>	Allows writing to share ( <code>yes</code> or <code>no</code> )
<code>read only</code>	Opposite of <code>writable</code> ( <code>yes</code> = deny writing)
<code>browseable</code>	Can the share be seen in network browsing?
<code>valid users</code>	Who can access the share (list of users or <code>@groups</code> )
<code>invalid users</code>	Who is <i>explicitly</i> denied
<code>guest ok</code>	Allow access without login (not recommended for security)
<code>create mask</code>	Sets default permissions for new files (e.g., <code>0664</code> )
<code>directory mask</code>	Sets default permissions for new folders (e.g., <code>0775</code> )
<code>force user</code>	Force all access to use a single system user
<code>force group</code>	Force all access to use a single group

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### ♦ Common Permission Masks

Octal	Meaning	Who can do what
<code>0777</code>	<code>rxrwxrwx</code>	Everyone, everything
<code>0755</code>	<code>rxr-xr-x</code>	Owner can write, others read only
<code>0770</code>	<code>rxrwx---</code>	Owner and group full access
<code>0660</code>	<code>rw-rw----</code>	Owner/group read/write only
<code>0644</code>	<code>rw-r--r--</code>	Owner read/write, others read only

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### ♦ Pro Tips

Always set Linux permissions to match Samba expectations!

Samba doesn't override Linux ownership – it works with it.

Use `testparm` to verify `smb.conf` for typos.

Use `smbstatus` to check who's connected.

Avoid `guest ok = yes` unless you really mean “open season” on file access.

More Useful Commands:

To show **all storage mount points** in Linux system, use: `bash findmnt`

Alternatively, to see mounts along with filesystem usage: `bash df -h`

To see members of a group: `bash getent group sharedgroup`

*Created entirely by ChatGPT 4o per its suggestion for students. ~ B. Carter*